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PATENT

Client-matter no.: 66784-015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Kees Jalink

Serial No.: 10/607,037

Filed: June 25, 2003

For: MEMBRANE MOLECULE
INDICATOR COMPOSITIONS AND
METHODS

Mail Stop PGPUB

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

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) Examiner: Unassigned

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REQUEST FOR CORRECTED PATENT APPLICATION PUBLICATION

The Applicants respectfully request a corrected patent application publication under 37 C.F.R. § 1.221(b).

The Applicants believe that publication No. US-2004-0029206-A1, published February 12, 2004, contains the following material mistakes that are apparent from USPTO records:

1. Page 19, claim 9; please delete the "PLC β 1 or PLC β 1" and replace therefor with "PLC δ 1 or PLC β 1". See attached page 76 of the original specification, which shows this to be a PTO error.

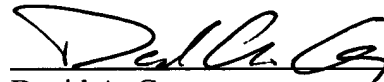
Accordingly, Applicants request that these errors be corrected in the USPTO's electronic copy of the Specification and that the USPTO publish a corrected patent application publication.

Inventor(s): Kees Jalink
Serial No.: 10/607,037
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No fee is deemed necessary to file this Request. If any fee is required, authorization is hereby given to charge the amount to Deposit Account No. 502624. A duplicate copy of this sheet is enclosed for this purpose.

Respectfully submitted,

Date: April 12, 2004



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-continued

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42

What is claimed is:

1. A phosphatidylinositol 4,5-bisphosphate (PIP2) indicator, said indicator comprising:

(a) a first polypeptide comprising:

- (i) a pleckstrin homology (PH) domain; and
- (ii) a donor fluorescent domain

(b) a second polypeptide comprising:

- (i) a pleckstrin homology (PH) domain; and
- (ii) an acceptor fluorescent domain;

wherein fluorescence resonance energy transfer (FRET) between said donor domain and said acceptor domain indicates PIP2 levels.

2. The indicator of claim 1, wherein said PH domain is a PLC δ 1 or PLC β PH domain.

3. The indicator of claim 1, wherein said donor fluorescent domain is selected from the group consisting of a GFP and a dsRED.

4. The indicator of claim 1, wherein said donor fluorescent domain is a CFP.

5. The indicator of claim 1, wherein said acceptor fluorescent domain is selected from the group consisting of a GFP and a dsRED.

6. The indicator of claim 1, wherein said acceptor fluorescent domain is a YFP.

7. A cell comprising the indicator of claim 1.

8. A nucleic acid kit, the nucleic acid molecule components of which encode a PIP2 indicator, said indicator comprising:

(a) a first polypeptide comprising:

- (i) a PH domain; and
- (ii) a donor fluorescent domain

(b) a second polypeptide comprising:

- (i) a PH domain; and
- (ii) an acceptor fluorescent domain;

wherein fluorescence resonance energy transfer (FRET) between said donor domain and said acceptor domain indicates PIP2 levels.

9. The kit of claim 8, wherein said PH domain is a PLC β 1 or PLC β PH domain.

8. A nucleic acid kit, the nucleic acid molecule components of which encode a PIP2 indicator, said indicator comprising:

(a) a first polypeptide comprising:

- 5 (i) a PH domain; and
 (ii) a donor fluorescent domain

(b) a second polypeptide comprising:

- (i) a PH domain; and
 (ii) an acceptor fluorescent domain;
10 wherein fluorescence resonance energy transfer
(FRET) between said donor domain and said acceptor domain
indicates PIP2 levels.

9. The kit of claim 8, wherein said PH domain is a PLC δ 1 or PLC β PH domain.

- 15 10. The kit of claim 8, wherein said donor
fluorescent domain is selected from the group consisting
of a GFP and a dsRED.

11. The kit of claim 8, wherein said donor
fluorescent domain is a CFP.

- 20 12. The kit of claim 8, wherein said acceptor
fluorescent domain is selected from the group consisting
of a GFP and a dsRED.

13. The kit of claim 8, wherein said acceptor
fluorescent domain is a YFP.

- 25 14. A cell expressing the nucleic acid molecule
components of the kit of claim 8.